

Table 4-6. Peak Concentrations at 100-Meter Well for No Action, C-Area and Central Shops

		PATHRAE peak concentrations ^a			
		Chemicals (mg/L)		Radionuclides (pCi/L)	
	Waste management facility	Site number	Pb	Trichloro-ethylene	H-3
TC	C-Area burning/rubble pit	4-4	0.038 (1982)	1.8 ^b (1983)	(c)
	Hydrofluoric acid spill area	4-5	0.015 (1977)	(c)	(c)
	Ford Building seepage basin	4-7	0.001 (1986)	(c)	7.0 x 10 ⁶ (b) (1973)
TC	Sum of concentrations		0.054 ^b	1.8 ^b	7.0 x 10 ⁶ (b)
	Standard ^d		0.05	0.005	87,000

^aYear of peak concentrations shown in parentheses; years prior to 1985 are indications of present conditions.

^bConcentration exceeds regulatory standards.

^cConstituent did not meet threshold selection criteria for PATHRAE modeling.

TC ^dStandards obtained from the following sources: Pb and trichloroethylene (EPA, 1985a, 1987). ICRP Publication 30 (ICRP, 1978) methodology was used to determine concentrations that yield an annual effective whole-body dose of 4 millirem per year.

Table 4-7. Peak Concentrations at 100-Meter Well
for No Action, TNX-Area

PATHRAE - Peak contaminant concentrations ^a						
Waste management facility	Site number	Chemicals (mg/L)				
		Cr	Pb	NO ₃	Tetrachloro- methane	Trichloro- ethylene
D-Area burning/ rubble pits ^b	5-1, 5-2	0.026 (1982)	0.038 (1982)	(c)	(c)	1.8 ^d (1983)
TNX burying ground	5-3	(c)	(c)	1.5 (1964)	(c)	(c)
TNX seepage basin (old)	5-4	0.077 ^d (1986)	0.054 ^d (1986)	2000 ^d (1986)	0.028 ^d (1987)	0.49 ^d (1986)
TNX seepage basin (new)	5-5	0.0035 (1990)	(c)	1900 ^d (1990)	(c)	(c)
Sum of concentrations		0.11 ^d	0.092 ^d	3900 ^d	0.028 ^d	2.3 ^d
Standard ^e		0.05	0.05	10	0.005	0.005

^aYear of peak concentration is shown in parentheses; years prior to 1985 are indications of present conditions.

^bConcentrations are from PATHRAE modeling for largest inventory waste management unit in this functional grouping; actual peak concentrations are dependent on the inventory of this unit.

^cConstituent did not meet threshold selection criteria for PATHRAE modeling.

^dConcentration exceeds regulatory standards.

^eApplicable standards obtained from the following sources: Cr, Pb, NO₃, tetrachloromethane and trichloroethylene (EPA, 1985a, 1987).